



RENO REFRACTORIES, INC

RENO ASAP CLEAN 25 SIC

TECHNICAL DATA SHEET

RENO ASAP CLEAN 25 SIC is a low-cement, vibrating castable made with Andalusite and 25% Silicon Carbide. Volume stability, thermal shock and alkali resistance are a few of its unique characteristics.

RENO ASAP CLEAN 25 SIC ideal for a variety of applications. Some applications include cement kiln preheaters, nose rings, bull nose and cooler sections.

SERVICE TEMPERATURE:

3000°F (reducing)

MATERIAL REQUIRED :

165 lbs./cu. ft. (4.5% water)

CASTING WATER:

4.25 – 4.5%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	MgO	SIC	CaO
40 – 43	29 – 34	<1.0	<1.0	<0.1	25	1.5

TYPICAL PHYSICAL PROPERTIES (Cast @ 4.25%)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	"K" Factor Btu-in/hr-ft ² °F	Linear Change %
250	2,100-3,740	8,700-18,700	22.2	----
1500	1,450-1,900	10,900-17,190	23.1	0.0
2000	1,500-1,975	11,500-17,875	27.8	+0.2
2500	2,030-3,400	12,450-18,375	34.2	+0.4

TYPICAL PHYSICAL PROPERTIES (Pumped @ 5.5%)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Porosity %
250	1,675 – 1,985	11,130 – 12,600	+0.1	
1500	1,415 – 1,550	9,965 – 12,065	+0.2	14.5
2500	1,375 – 1,795	7,385 – 8,150	+0.5	13.6
2800	1,865 – 2,160	7,675 – 9,435	+0.5	9.0

COEFFICIENT OF THERMAL EXPANSION: 2.79 E⁻⁶ in/in/°F

ABRASION LOSS, C-704: 1500°F Cast – 4 cc Pumped – 5.8 cc
2500°F Cast – 3 cc Pumped – 3.8 cc

THERMAL SHOCK LOSS, C-1171: Cast – 10% Pumped – 16%

HMOR 2500°F Pumped 1,185 psi

PACKAGING: 72 / 55 lb. Bags per Pallet 2 / 1,500 lb. Bags per Pallet

15-057

166000 10/17/2023

The data presented represents typical average results obtained by testing under ASTM or other acceptable procedures as required. They are subject to normal variations and should not be used for specification purposes.

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